



Mahmud Ghnaj

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ABOUT ME

I am Mahmud, a passionate Full Stack Software Engineer with over four years of experience, specializing in front-end development. My career has been marked by my work on cutting-edge platforms, particularly in the realms of IoT, AI, and data analysis. These high-impact projects, often involving large-scale data, have honed my skills and provided me with deep technical expertise.

I excel in dynamic team environments, bringing innovative solutions and a collaborative spirit to every project. My ability to manage complex tasks and drive projects to successful completion has been a key factor in my contributions to various high-profile platforms. I am committed to continuous learning and professional growth, constantly seeking out new challenges and opportunities to leverage my skills to deliver exceptional results.

WORK EXPERIENCE

14/01/2021 – CURRENT
Front-End Engineer Unifi Solutions

During my time at Unifi Solutions, I was involved in various key responsibilities:

- **Optimized Real-Time Tracking System:** Developed and enhanced a real-time tracking system for over 100 vehicles, processing location updates every second. Achieved significant improvements in map performance, efficiently handling large data volumes to ensure seamless real-time tracking.
- **Advanced Data Visualization :** Evaluated and implemented top-tier chart libraries, managing datasets with over 3 million entries. Ensured smooth and responsive data visualization, enhancing user interaction and data comprehension.
- **Robust Security and Access Control Systems:** Engineered highly precise security systems with time-based access controls. Overcame complex challenges and provided innovative solutions, leading to improved system reliability and security.
- **Dynamic Reporting Systems:** Designed and implemented comprehensive reporting systems with intricate data analytics and visualizations. Delivered annual, monthly, and daily reports featuring detailed graphical representations, facilitating better decision-making.
- **Multilingual Platform Translation:** Led the translation of platforms into multiple languages, optimizing performance to manage substantial translation file sizes. Ensured efficient file handling and seamless multilingual support, significantly enhancing user experience across different regions.
- **Performance Optimization:** Proactively improved the performance of data-intensive pages and sections, optimizing browser memory usage. Enhanced overall efficiency, ensuring swift loading times and smooth user interactions for complex components.
- **Sophisticated User Management Systems:** Designed and maintained platforms with complex user role hierarchies, including admin, super admin, and general users. Ensured robust functionality and a seamless user experience across different access levels, contributing to overall system stability and user satisfaction.
- **Restaurant Management Platforms and KDS:** Worked on developing and enhancing restaurant management platforms and Kitchen Display Systems (KDS), providing significant solutions and improvements to streamline operations and improve efficiency.
- **Healthcare Platforms:** Developed and maintained healthcare platforms for patient monitoring and report generation. Implemented solutions for tracking patient conditions and printing detailed health reports, contributing to better patient care and operational efficiency.

01/01/2020 – 31/12/2021
Full-Stack Developer Freelance

- **End-to-End Project Development:** Led and completed projects with React and Node.js, ensuring high performance and scalability.
- **E-commerce Platforms:** Developed advanced sites with custom features and secure payment systems.
- **Responsive Web Apps:** Built responsive applications with React for seamless cross-device performance.
- **Robust Backend Systems:** Created scalable systems with Node.js for efficient data handling and API integration.
- **Cloud Deployment:** Deployed applications on AWS, implementing CI/CD pipelines for streamlined processes.
- **Enhanced Security:** Implemented strong security measures, including data encryption and secure authentication.

● EDUCATION AND TRAINING

08/02/2016 – 21/09/2020

Software Engineering Al-Baath University

Thesis Developing a secure electronic voting system using blockchain technology, Ethereum, smart contracts (Solidity), Truffle, Ganache, and implementing with Javascript and Web3.js.

● DIGITAL SKILLS

React (JS) | Next JS | Vue JS | tailwind css | MobX,Zustand | Vite | TypeScript | Node JS | Nest,JS | NoSQL | MongoDB | RESTful APIS | Blockchain | CI&CD | Git, Bitbucket, Gradle, CI, Jenkins, JIRA, Docker

● PROJECTS

DisruptX

Disrupt-X is a company based in Dubai that specializes in Internet of Things (IoT) solutions. They offer a comprehensive, which integrates a wide range of IoT applications and services under one ecosystem. This platform is designed to be versatile, supporting various communication protocols and hardware, and aims to simplify the process from data collection to actionable insights.

link: <https://disrupt-x.io/> - <https://cloud.disrupt-x.io/>

ALEF

The ALEF IoT Platform is a comprehensive, flexible IoT solution designed to automate operations and enhance efficiency. Key features include end-to-end IoT solutions, compatibility with various communication protocols and hardware, centralized device management, a customizable dashboard builder, white labeling support, and flexible deployment options (cloud, hybrid, or on-premises). It aims to simplify IoT implementation and management for diverse applications.

Link: <https://cloud.alefiot.io/>

Facilitrol-X

Facilitrol-X is an all-in-one CMMS and CAFM solution designed to streamline your facility management by integrating with IoT data, BMS, and existing systems. Gain complete visibility of your assets, equipment, and maintenance operations, along with real-time IoT insights, all on a single cloud-based platform. Facilitrol-X simplifies the complex, making facility management more efficient, proactive, and data-driven.

link:<https://facilitrol-x.io/>

ABIOT

ABIOT is the leading Saudi IoT solutions platform, renowned for its unwavering commitment to innovation and excellence in the realm of the Internet of Things (IoT). With a focus on delivering cutting-edge, scalable, and efficient IoT solutions, ABIOT caters to a diverse array of use cases and customer verticals, ensuring that our offerings are both versatile and impactful.

Our wide spectrum of IoT solutions is designed to enhance connectivity, streamline operations, and optimize resource utilization. From managing single assets to overseeing the intricate networks of an entire city, ABIOT's solutions are engineered to address the unique needs of various industries, including healthcare, transportation, energy, agriculture, and smart cities.

link:<https://abiot.io/>

Cracking IoT Conference

The Cracking IoT Conference, touted as the largest event of its kind in the Middle East and North Africa, took place in the UAE in collaboration with Intel Corporation. This prestigious gathering convened 300 C-Suite executives from various industries. Participants had the opportunity to glean insights from more than 40 global leaders in the IoT sphere through keynote addresses, panel discussions, and interactive workshops. The discussions encompassed a wide range of topics, including innovative IoT applications and security challenges

link:<https://www.crackingiot.com/chapter-3/>

MEDXSOL

The Integrated Medication and Blister Pack Management System represents a sophisticated solution designed to streamline medication management for healthcare facilities, pharmacies, and patients alike. This innovative system combines cutting-edge technology with user-friendly interfaces to ensure accurate medication dispensing, adherence, and tracking.

link:<https://medxsol.com/> - <https://check.medxsol.com/>

Kitchen Display System (KDS)

KDS is an advanced kitchen display system designed to optimize restaurant operations. This state-of-the-art solution features an intuitive interface, real-time order management, and enhanced communication between kitchen and front-of-house staff. It includes an admin dashboard, a super admin dashboard, a kitchen screen for real-time order display, an order screen, and a customer display screen showing the current order number. The system also offers real-time inventory management, detailed order analytics.

Developed and integrated over nine new IoT solutions into the DisruptX platform, now utilized by more than 25,000 users globally. Showcased these solutions at premier forums and events, including Asia Tech x Singapore (ATxSG) and GITEX

Highlighted Solutions:

- **Ignite Shield:** Ignite Shield is our comprehensive IoT suite designed to monitor critical environmental and infrastructural parameters.

Link: <https://disrupt-x.io/ignite-shield/> - <https://cloud.disrupt-x.io/global/core/market/main/ignite-shield>

- **Ignite Meter:** Ignite Meter revolutionizes utility management with real-time and accurate water, gas, and power metering solutions.

Link: <https://disrupt-x.io/ignite-meter/> - <https://cloud.disrupt-x.io/global/core/market/main/ignite-shield>

- **Metro Locks:** Control and secure your premises with smart padlocks and parking locks.

Link: <https://disrupt-x.io/metro-locks/> - <https://cloud.disrupt-x.io/global/core/market/main/metro-watch>

- **Asset Watch:** Track personal belongings, animals, and other assets with precision and ease. Additionally, monitor mobile cold storage.

Link: <https://disrupt-x.io/asset-watch/> - <https://cloud.disrupt-x.io/global/core/market/main/asset-watch>

- **Cognitive Neurons:** Streamline parking access and commercial parking management with smart and innovative solutions.

Link: <https://disrupt-x.io/ignite-shield/> - <https://cloud.disrupt-x.io/global/core/market/main/ignite-shield>

- **Cloud Orbit:** Revolutionize waste management and rodent monitoring with Cloud Orbit's smart, efficient, and easy-to-use solutions.

Link: <https://disrupt-x.io/cognitive-neurons/> - <https://cloud.disrupt-x.io/global/core/market/main/anpr>

- **TechNex:** Keep a close eye on your fleet with our light and heavy vehicles tracking solutions and heavy machinery tracking.

Link: <https://disrupt-x.io/technex/> - <https://cloud.disrupt-x.io/global/core/market/main/fleet-management>

- **Urban AI:** Maximize the potential of your urban spaces with our Urban AI suite, Smart parking, Smart Space Management and Smart Facility Analytics.

Link: <https://disrupt-x.io/urban-ai/> - <https://cloud.disrupt-x.io/global/core/market/main/urban-ai>

- **Defcon Patrols:** Leverage intelligent security and safety with intrusion alarm services, smart panic buttons, and fire monitoring solutions.

Link: <https://disrupt-x.io/defcon-patrols/> - <https://cloud.disrupt-x.io/global/core/market/main/defcon>